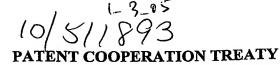
Translation Translation





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FKU-263PCT	FOR FURTHER ACTION		ionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)
PCT/JP2003/005173	23 April 2003 (23.04	.2003)	23 April 2002 (23.04.2002)
International Patent Classification (IPC) or n C08J 5/18, 7/04, B32B 27/30, B	ational classification and IPC 65D 1/09, B65D 30/02, 65/02	2, 65/40 // C0	08L 33:02, 35:00
Applicant KUREHA	CHEMICAL INDUSTRY	COMPANY	, LIMITED
and is transmitted to the applicant a 2. This REPORT consists of a total of	ccording to Article 36. 4 sheets, including	ng this cover s	on, claims and/or drawings which have been
	e Administrative Instructions und	ining rectifications are the PCT).	ations made before this Authority (see Rule
This report contains indications rel	ating to the following items:		
I Basis of the report			
II Priority			
III Non-establishment	of opinion with regard to novel	ty, inventive s	tep and industrial applicability
IV Lack of unity of in	vention		
V Reasoned statemer	nt under Article 35(2) with regar mations supporting such stateme	d to novelty, i	nventive step or industrial applicability;
VI Certain documents			
· · ·	the international application		
1 *** L	ns on the international application	on	
Date of submission of the demand		Date of completion of this report	
04 September 2003 (04.09.2003)		22 D	ecember 2003 (22.12.2003)
Name and mailing address of the IPEA/JP	Auth	orized officer	
Facsimile No.	Teler	phone No.	

International application No.

PCT/JP2003/005173

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis	of the re	port						
1. With regard to the elements of the international application:*								
	_	mational application as originally filed						
X	the desc	cription:						
	pages		1-88	, as originally filed				
	pages			, filed with the demand				
	pages		, filed with the letter of					
	the clai	ms:						
	pages	2-7.	9-16, 18-44	, as originally filed				
	pages		, as amended (together	r with any statement under Article 19				
	pages			, med with the demaild				
	pages	1, 17	, filed with the letter of _	15 December 2003 (15.12.2003)				
	the dra	wings:						
	pages	_		, as originally filed				
	pages			, filed with the demand				
}	pages		, filed with the letter of					
	the cean	ence listing part of the description:						
-	pages			, as originally filed				
1	pages			, filed with the demand				
	pages		, filed with the letter of					
 With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language								
preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.								
		shed subsequently to this Authority in comput						
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has							
4.		furnished. mendments have resulted in the cancellation of						
		the claims, Nos8 the drawings, sheets/fig						
5.	l beyon	eport has been established as if (some of) the disclosure as filed, as indicated in the St	upplemental Box (Rule 70.2(c)).**					
in i	this repo l 70.17).	t sheets which have been furnished to the rec ort as "originally filed" and are not anne	xed to this report since they do	not contain amenaments (Rule 70.10				
** Any	replace	ment sheet containing such amendments must	be referred to under item 1 and an	nexed to this report.				

International application No. PCT/JP 03/05173

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Citations and Captanassons 5-77				
Statement				
Novelty (N)	Claims	1-7, 9-44	YES	
2.00-0-0,	Claims		NO	
Inventive step (IS)	Claims	1-7, 9-44	YES	
	Claims		NO	
Industrial applicability (IA)	 Claims	1-7, 9-44	YES	
	Claims		NO	

Citations and explanations

Document 1: EP 1086981 A1 (Kureha Chemical Industry Co., Ltd.), 28 March 2001

Document 2: EP 890432 A1 (Kureha Chemical Industry Co., Ltd.), 13 January 1999

Document 3: JP 9-221571 A (Mitsui Dupont Polychemicals Co., Ltd.), 26 August 1997

Document 4: JP 8-176316 A (Nippon Shokubai Co. Ltd.), 9
July 1996

Document 5: JP 6-107874 A (Mitsui Dupont Polychemicals Co., Ltd.), 19 April 1994

Claims 1-7 and 9-44 involve an inventive step relative to the documents cited in the international search report.

None of the documents discloses the feature of a film for which one of the starting materials used is a polymer which is a homopolymer, copolymer or mixture thereof wherein the monomer units are restricted to at least one selected from a set comprising acrylic acid, maleic acid, methacrylic acid, crotonic acid and fumaric acid.

Moreover, due to the feature whereby the ratio of the quantity of ionic bonds via the polyvalent metal

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/05173

relative to the free carboxyl groups, represented by the ratio of the peaks in the infrared absorption spectrum of the film, is at least a set value, the inventions in the present application can be particularly usefully employed for materials for packaging and containers and the like, and particularly those subject to cooking and sterilization and the like, since it enables cheap industrial production of film which has both good gas barrier properties which are not adversely affected under hot water environments, and also the quality of being easily to separate and recover when discarded due to the fact that it is readily dissolved by acids or alkalis.